30

5

## WHAT IS CLAIMED IS:

1. An in-plane switching mode liquid crystal display device comprising:

first and second substrates;

common electrodes arranged on one of the first and second substrates in a substantially zigzag pattern wherein each common electrode has at least one bent portion;

pixel electrodes arranged with a substantially zigzag pattern corresponding to the common electrodes roughly in parallel with the common electrodes;

common electrode frames extending from the bent portion of at least one of the common electrodes; and

- a liquid crystal between the first and second substrates.
- 2. The device of claim 1, further comprising:

pixel electrode frames extending from a bent portion of at least one of the pixel electrodes.

- 3. The device of claim 2, wherein respective common electrode frames are located between two neighboring pixel electrode frames.
- 4. The device of claim 2, wherein respective pixel electrode frames are located between neighboring common electrode frames.
  - 5. The device of claim 2, wherein respective common electrode frames and the pixel electrode frames are arranged in parallel with one another.
    - 6. The device of claim 5, wherein the pixel electrode frames and the common electrode frames are alternately arranged in one direction.

30

5

- 7. The device of claim 1, wherein the common electrode frames are essentially located in the bent portion having a smaller angle than 180°.
- 8. The device of claim 2, wherein the pixel electrode frames are essentially located in the bent portion having an angle smaller than 180°.
- 9. An in-plane switching mode liquid crystal display device comprising:

first and second substrates;

common electrodes arranged on one of the first and second substrates in a substantially zigzag pattern wherein each pixel electrode has at least one bent portion;

pixel electrodes arranged with a substantially zigzag pattern corresponding to the common electrodes roughly in parallel with the common electrodes wherein each pixel electrode has at least one bent portion;

- a dielectric frame partially overlapping the bent portion of the pixel electrodes and extending from the bent portion; and
  - a liquid crystal between the first and second substrates.
- 25 10. The device of claim 9, wherein the dielectric frame is formed inside the bent portion.
  - 11. The device of claim 9, wherein the dielectric frame has a gradually decreasing width toward the common electrodes.
  - 12. The device of claim 9, wherein the dielectric frame includes a dielectric material having a dielectric anisotropy smaller than that of the liquid crystal.



25

- 13. The device of claim 9, wherein the dielectric frame has a thickness smaller than a distance between the first and second substrates.
- 14. The device of claim 9, wherein the dielectric frame has a thickness substantially equal to a distance between the first and second substrates.
- 15. An in-plane switching mode liquid crystal display device comprising:

first and second substrates;

common electrodes arranged on one of the first and second substrates in a substantially zigzag pattern wherein each common electrode has at least one bent portion;

- a pixel electrode arranged with a substantially zigzag pattern corresponding to the common electrodes roughly in parallel with the common electrodes;
- a dielectric frame partially overlapping the bent portion of the common electrodes and extending from the bent portion; and
  - a liquid crystal between the first and second substrates.
- 16. The device of claim 15, wherein the dielectric frame is formed outside the bent portion of the common electrodes.
- 17. The device of claim 15, wherein the dielectric frame has a gradually decreasing width toward the pixel electrodes.
- 18. The device of claim 15, wherein the dielectric frame includes a dielectric material having a dielectric anisotropy greater than that of the liquid crystal.

- 19. The device of claim 15, wherein the dielectric frame has a thickness smaller than a distance between the first and second substrates.
- 5 20. The in-plane switching mode LCD device of claim 15, wherein the dielectric frame has a thickness substantially equal to a distance between the first and second substrates.